

## Message Text

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ORIGIN EPA-04

INFO OCT-01 EA-12 ISO-00 OES-07 L-03 EB-08 COME-00  
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TRSE-00 /067 R

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EA/J:CMCDONALD

-----025513 230624Z /20

R 221836Z JUN 78  
FM SECSTATE WASHDC  
TO AMEMBASSY TOKYO

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PASS TO JUSTIN BLOOM

E.O. 11652: N/A

TAGS: SENV, JA

SUBJECT: EPA CONTRACTS WITH JAPANESE FIRMS  
REF: TOKYO 9991

1. CONTRACTS WERE AWARDED DURING MAY TO INITIATE BENCH-  
SCALE PROJECTS TO EVALUATE PROMISING NOX AND NOX/SOX FLUE  
GAS TREATMENT PROCESSES. THE CONTRACT FOR THE NOX REMOVAL  
PROJECT WAS AWARDED MAY 25 TO HITACHI ZOSEN OF TOKYO,  
JAPAN, TO EVALUATE THEIR SELECTIVE CATALYTIC REDUCTION  
PROCESS USING AMMONIA. HITACHI ZOSEN WILL SUBCONTRACT  
TO CHEMICO AIR POLLUTION CONTROL CORPORATION TO BUILD AND  
OPERATE THE UNIT WHICH WILL BE CONNECTED TO GEORGIA POWER  
COMPANY'S UNIT NO. 13 AT PLANT MITCHELL NEAR ALBANY,  
GEORGIA. APPLICATION OF THE PROCESS, WHICH IS EXPECTED TO  
REMOVE 90 OF THE NOX FROM THE FLUE GAS, WILL BE THE FIRST  
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TEST OF THE TECHNOLOGY ON A COAL-FIRED BOILER IN THE U.S.

2. THE CONTRACT FOR THE SIMULTANEOUS NOX/SOX REMOVAL UNIT  
WAS AWARDED MAY 31 TO UOP, INC., TO EVALUATE THE SHELL  
COPPER OXIDE PROCESS. UOP WILL OPERATE THE TEST UNIT WHICH  
WILL BE CONNECTED TO THE COAL-FIRED BOILERS AT TAMPA ELECTRIC  
COMPANY'S BIG BEN STATION IN NORTH RUSKIN, FLORIDA. THE

SHELL PROCESS IS EXPECTED TO REMOVE 90 OF BOTH THE NOX AND SOX FROM THE FLUE GAS. THE PROJECT WILL BE THE FIATST TEST O THIS TECHNOLOGY ON A COAL-FIRED SOURCE ANYWHERE IN THE WORLD.

3. THE BENCH-SCALE PLANTS MUST TREAT A FLUE GAS VOLUME EQUIVALENT TO 0.5 MW AND ACHIEVE A NO REMOVAL EFFICIENCY OF 90 . FOR THE SIMULTANEOUS CONTR L OF NOX AND SOX 90 REMOVAL OF BOTH POLLUTANTS MUST BE ACHIEVED. THE PROJECTS 'ILL EACH CONSIST OF A 20-MONTH PROGRAM WHICH WILL BE CONDUCTED IN FOUR PHASES. PHASE I INCLUDES THE PREPARATION OF A DETAILED PROCESS DESIGN AND AN ESTIMATION OF CAPITAL AND OPERATING COSTS FOR THE PLANT. FOLLOWING ERECTION OF

THE PLANT AND MECHANICAL ACCEPTANCE TESTING IN PHASE II, THE CONTRACTOR WILL PERFORM SYSTEM START-UP AND DEBUGGING, PARAMETRIC TESTING, AND OPTIMIZATION TESTING OVER A

WIDE RANGE OF FLUE GAS CONDITIONS DURING PHASE III. PHASE IV PROVIDES FOR TESTING AND EVALUATION OF THE PLANT DURING

90 DAYS OF CONTINUOUS OPERATION. IT IS CURRENTLY ANTICIPATED THAT FINAL REPORTS WILL BE PUBLISHED ON THE RESULTS OF THE OPERATION IN 1980. A PROJECT MANUAL CONVEYING THE TOTAL CONCEPT OF THE PROPOSED PLANT IS PLANNED FOR LATE UNCLASSIFIED

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1978. VANCE

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